

## CLAIMS

1. A fuel feed unit for a motor vehicle having a fuel pump which is driven by an electric motor, and having a rotor of the fuel pump arranged between two housing parts, the rotor  
5 being fastened in a rotationally fixed manner to a shaft of the electric motor, characterized in that at least one of the housing parts (4, 5) has an expansion joint (21, 22).
2. The fuel feed unit as claimed in claim 1, characterized in that at least one of the housing parts (4, 5) is produced from plastic and in that the plastic forms a bearing shell for  
10 directly mounting the shaft (7).
3. The fuel feed unit as claimed in claim 1, characterized in that the housing part (4) which faces toward the electric motor (2) has a radial section (19) which runs toward the shaft (7) and an axial section (20) which leads away from the rotor (6) parallel to the shaft (7).  
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4. The fuel feed unit as defined in claim 3, wherein the expansion joint (21) is arranged on the axial section (20) near the rotor (6) and is embodied as a spacing of the housing part (4) from the shaft (7).
- 20 5. The fuel feed unit as defined in claim 3, wherein the expansion joint (21) runs over approximately half of the axial section (20).
6. The fuel feed unit as defined in claim 3, wherein the expansion joint (21) on the axial section (20) runs over the entire height of the radial section (19).  
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7. The fuel feed unit as defined in claim 3, wherein the expansion joint (22) is arranged in the corner region at which the two sections (19, 20) adjoin one another.
8. The fuel feed unit as defined in claim 3, wherein the expansion joint (22) is arranged  
30 on the side of the housing part (4) facing faces toward the electric motor (2) which faces away from the rotor (6).
9. The fuel feed unit as defined in claim 3, wherein the expansion joint (22) is embodied as a groove which runs all the way around the axial section (20).  
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10. The fuel feed unit as defined in claim 3, wherein the axial section (20) and the radial section (19) are produced in one piece.